

## Comparison of CERES and Other Global TOA Flux Datasets

Figure 3: The comparison of monthly mean CERES ES-4 Edition2-Rev1 (ERBE-like), CERES-SRBAVG Edition2D-Rev1 non-GEO, GEWEX-SRB, ISCCP-FD, NCEP-reanalysis, ECMWF-ERA40 with the CERES-SRBAVG Edition2D-Rev1 GEO.

- a. global all-sky LW TOA fluxes during 2000 to 2003
- b. global clear-sky LW TOA fluxes during 2000 to 2003
- c. global all-sky SW TOA fluxes during 2000 to 2003
- d. global clear-sky TOA fluxes during 2000 to 2003

The CERES Rev1 user applied corrections have been applied to the CERES SW ERBE-like, non-GEO and GEO TOA fluxes. The top panel displays the global monthly means for each dataset. The middle panel shows the monthly mean flux differences with respect to CERES-SRBAVG GEO. The bottom panel left side contains the legend for the top panel and the corresponding 3-year flux means. The bottom panel right side contains the legend for the middle panel and the corresponding 3-year mean differences.

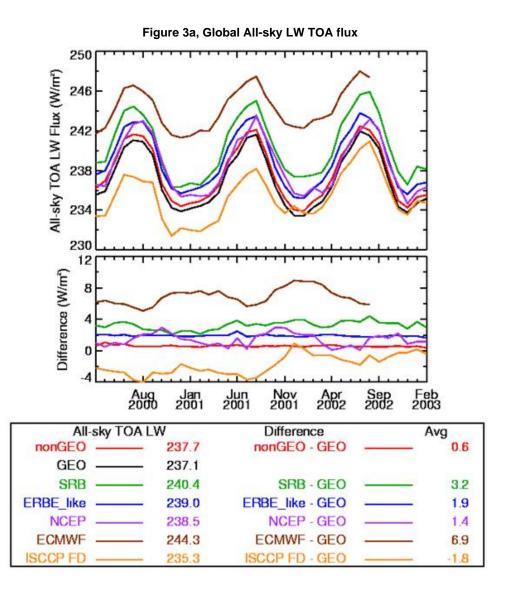
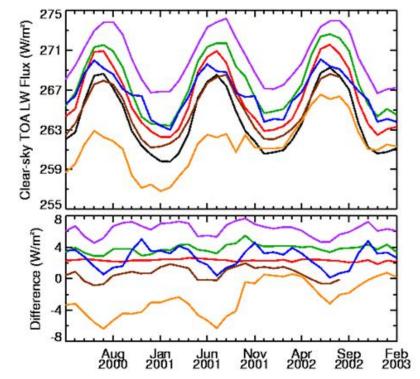
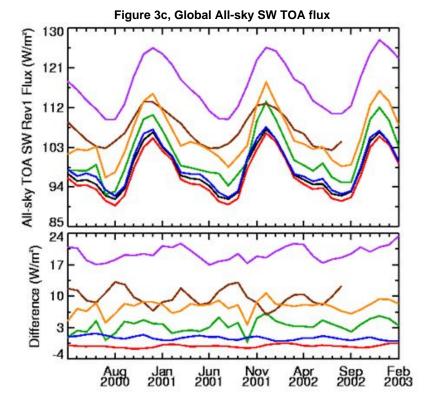


Figure 3b, Global Clear-sky LW TOA flux

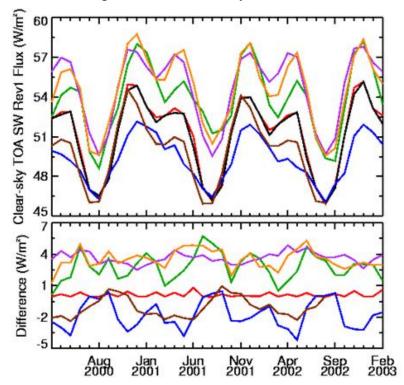


Clear-sky TOA LW		Difference	Avg	
nonGEO ———	266.3	nonGEO - GEO		2.3
GEO	264.0			
SRB —	267.8	SRB - GEO		3.8
ERBE_like ———	266.7	ERBE_like - GEO		2.7
NCEP -	270.2	NCEP - GEO		6.3
ECMWF	264.9	<b>ECMWF - GEO</b>		0.6
ISCCP FD	261.5	ISCCP FD - GEO		-2.5



All-sky TOA SW Rev1		Difference	Avg	
nonGEO ———	96.7	nonGEO - GEO		-1.1
GEO	97.8			
SRB —	101.2	SRB - GEO		3.4
ERBE_like ———	98.5	ERBE_like - GEO		0.7
NCEP -	117.3	NCEP - GEO		19.5
ECMWF —	107.0	ECMWF - GEO		9.8
ISCCP FD	105.4	ISCCP FD - GEO		7.6

Figure 3d, Global Clear-sky SW TOA flux



Clear-sky TOA SW Rev1		Difference	Avg	
nonGEO ———		nonGEO - GEO		0.1
GEO	- 51.1			
SRB —	53.9	SRB - GEO		2.8
ERBE_like	49.3	ERBE_like - GEO		-1.8
NCEP -	- 54.8	NCEP - GEO		3.7
ECMWF -	49.8	<b>ECMWF - GEO</b>		-1.1
ISCCP FD -	54.6	ISCCP FD - GEO		3.5